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#### In this issue

NEW BOOKS: "On the Beach" by Navil Shate, p. 2.
"Prisoner in the Skuli" by Charles Dye, p. 2...
"Seience in Fiction" ed. J. & A. Bayliss, p. 2.
"Science and Fiction" by Patrick Moore, p. 2.
SPACE TRAVEL IN PACT AND PICTION, (part 2)
by Arthur C. Clarke, p. 4.
ON THE SCREEN, by Forrest J. Ackerman, p. 3.
HEF ZEALAND REPORT, by Roger Horreche, p. 3.
BOOKS AT A GLANCE, p. 8.

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### NEW BOOKS

ON THE BEACH by Nevil Shute (Seinemann)

This book is an honost, seber and up to a point realistic and soundly based attempt at a novel on the theme of the now peasible end of human life on Earth through the highlevel atmospheric radioactivity following a full ecole thermomeuclear war. It deserves credit as the first work of fiction to deacribe such a situation correctly as we know at may be, without rambling off into menuchase about monstrous mutations, luminous radioactive craters and so forth. It shows an understanding of geopolitical realities, and of the real danger points in intermetional tensions, which provide a velcome contrast to the naive political concepts of most writers who have approached the theme of futare conflict of arms, and in particular to the patricular official paramoia exhibited by - for instance - Fat Frank, Cyril Eorablath, Theodorn Dubois, Robert Shafer, Philip Wylin.

At the same time, there is much here to support the viewthat K. S. Korway would have done better to stick to the aeronautical engineering for which he had undoubted talent than to turn to writing novels.

The book opens, significantly, when all the shooting is overs the war that began with several irresponsible small nations launching smeak atomic attacks, immediately erupted into panic-stricken retalistion against their victims' other encales, then into a frantic race for each power to put ambition into ef-fect and beat its rivals to the draw. The main struggle, of course, once fighting was well under way, was the longest to continue, long after the shole world was already doomed to radiation poisoning, the matual externination of the two major powers with most te gain by one another's downfall, Russian and Chinese Communism. Ifter that, it was only a matter of time as the uninhabitable areas spread to cover all of Earth. What was left of Europe and America went, then there was only the Southern Remisphers . . . Australia and New Zealand would be the leat to go, lingering on for two or three years.

And then... and then nothing. Only the unedifying picture of a group of uninteresting people apathetically business—as—usualize and politely avoiding the subject as far as possible. In the middle chapters there is a relief from the general vaguely bored fatalism is a submarine North Pacific recommanness then back to the drawing room. The idea of a saled shelter in intertice for a few years till the radioactivity drops enough for asfety is mentioned, and dismissed as not worth trying. If this is the human rate, only agree.

As a varning, fair. As a novel, no.

PRISONER IN THE SEULL

by Charles Dye (Corgi Books - paper)

Charles Dye is the author of this, and we have since wondered why. The beginning quarter of the book reads as though he really meant it, as though his intentions were to write a good science fiction nevel. The following three quarters were thrown in for laugha, if you can laugh at blood on every pages marder, augzing, sapping, dumping, poissuing, atunning, stabbing, and se en into the bloody might. Somehow it is all vaguely connected with a beautiful woman bent on saving the world and maintaining the atatum que of a moon colony.

- Wilson Tucker

SCIENCE IN PICTION

edited by J.C. and A.E.M. Raylins (Pilot Books, University of London Press)

collection pressmeably seast to be used to lives up high school English, missing that mark as well as felling in general appeal. There is one complete short story, M. G. Wells' "The Star", and eleves episodes from books, mostly all toe familiar to all ST readers, and for that matter to the average literate adult. The books wisited are Clarke's "Frelude to Space"; Lucian's "True Story"; Swift's "Third Voyage of Gulliver"; Swift's "Third Voyage of Gulliver"; Lyle "The Lost World"; Mercier's "Journal of the Year 2440"; Levis' "Out of the Silent Planet"; Wells' "The Food of the Gods"; Seasari's "The Avenging Ray"; Verme's "20,000 Leaguee Under the Sea"; Wyndham's "Day of the Triffids"; and Northrup-Pseudoman's "Zero to Eighty". The intention was good, but the approach is wrong, all wrong.

SCIENCE AND FICTION by Patrick Moore (Harrap)

royal astronomical Society and also of the British Interplanetary Society, author of some popular astronomical books as well as some sound technical work. He is also a hack the sound technical work is a livenile SP books. But these are not sufficient qualifications to write a book about accence fiction, and the resulting book is a thoroughly bad book.

It is not a completely bed look, admittelly. The first fur chapters, which cover the ancient background and the 17th to 19th Century forerunners, then Yerne and Vella, are not very profound but they are a reasonably adequate bird's eye is of all the best known landwarks. Bailey, Nicolaon, Ley, Gove, Clarke and others have covered it all before, but this account is a fair introduction. (Contd. p. 1)

### on the Screen

by FORREST J. ACKERMAN

Nov I'm mad. I've just seen a picture so i'd bad you couldn't pay at a sit thru it -- fortenately I am it free: it didn't cost se anything -- only my sanity. This ineffable insmity has a name, and I want you to remember it, so that if you ever encounter it you can flee in the opposite direction as the the Nesster of Loch Ness, the Nightmare from the Nebula and the Colossal Tax Collector were all smarling at your heels. Filmed as Meanter on the Hill, it was released under the title of Teenage Meanter.

Hoth teenagers and monsters have been maligned by this crude crud. Teenagers of the world, unite: Monsters of other worlds, monst: Descend on the perpetrators of this pallid pucrile patholism piffle: Horsewhipping is too good for the producers — they should be monster-whipped.

Teenage Monster takes place about a hundred years ago, when I rather awapect it was filmed. The monster-boy speaks so unistelligibly that I think they took him out of an old silent picture and dubbed in his voice—in what language, I don't know. Broken English, I guesa.

Here is what you will miss by avoiding Townson Monster. A flaming meteor in the beginning of the picture explodes on hitting the ground and knacks a little boy encouncious, blackening up half his face in the pro-Next we see him seven years later, looking not 14 but about 140. Even after he discovers a rich vein of gold are for his doting mather, they can't seem to afford a pair of sheep shears to tidy up his bair and face a bit. He mightn't have been such bad looking monater if he'd got rid of that wolfman's mane, but that mess of unkempt whiskers and wig would be enough to turn any teenager into a monator. A face like that, only a berber could love - or Mon, who is prepared to overlook his first four or five senseless murders; but after that she begins to fear he might be falling into bad behavier patterns. She tries to get him to stay in his bedroom and play with a comely weach who is blackmailing her, but he breaks prosines like his victima' backs. Even the I stayed awake to the bitter end, and have a bitter ex-friend she was with me to prove it, I can't remember how the blasted thing ended. Sometimes nature is merciful and blots out memories too painful to beer.

The same company made The Brain From Planet Arous, showing that they can make other than atracious films: it's merely pretty bad. The Invisible Boy features Robby, the robot rousesbout of Forbidden Planet, and an invisible cast and me dialog would have improved this miserable fiance. My question is two the same than the far infliction of cruel and manuscal punishment?

## NEW ZEALAND REPORT

by ROGER BORROCES

Science fiction seems to be booming here in NZ at the moment. For example, I find Auckland alone has three bookshops specialising in SF, two running large libraries, the third holding amazing stocks of eccond-hand magazines. All the larger bookshops stock British books, or American pocketbooks—all Ballantine, Ace, Mentor and similar titles are readily available, and it is reported that an adition of Star SP, new magazine edited by Frederik Pohl, will be an anala here.

My own first book, a non-fiction PR about antellites and space travel, will be published seen by A. D. Organ Ltd. of Auckland. I was able to work in quite a few references to the SP field. I'll be very interested to see how it sells — besides the abvious reason for my interest it should provide some sort of an indication of the probable sale of a NZ science fiction magazine. (I am hoping that a local publisher might soon start one, which will really be a step forward.)

A new SF club has been formed in Auckland; SFAC, or SF Auckland Circle. Formerly there had been two, the Auckland Space Club and the Auckland SF Club. However, both had become outmoded, and in any case it seemed allly to have two separate groups in the one city. So it is now intended that SFAC should combine the remnants. The new club already has its own library and magazine, Kiwifan. Anyone interested can get more information from me at 18 Hazelmere Road, Mount Albert, Auckland SWI. Tenattended the inaugural mesting, including guest Bruce Burn from Wellington.

Several weeks ago I gave a talk on SF over radio station IYA. It was Children's Sook Week, and I was invited along to speak on the children's aggsion. Another Auckland fan, John McLeod, reviewed some juvenile SF books, and I contributed a talk on SF, fan clubs etc. We were asked a number of the conventional questions by Nosline Prichard, the young lady who ran the mession. The talk was aimed at the 8-14 age group. Well, it may induce a few of the little blighters to graw up to be fans.

I meidentally, Mary Elwyn Patchett, writer of children's SF books ("Kidneppers of Space" ste) visited NZ late last year, and there was a very (though unintentionally se) assuing report in the NZ Noman's Neekly. The term "Children's science fiction" throughout the article was taken as symmymous with atreight SF.

## SPACE TRAVEL in fact and fiction

PART TWO

(In the first part of this article, Mr. Clarke considered the non-mechanistic ideas for interplanetary flight found in the earliest stories and continuing as the normal approach until modern scientific thought began to replace it in the 17th and 18th Centuries -- Magic, demons, psychic powers, viscions, natural forces, birds, planetary collisions.)

The first machanical attempts at flight — in the atmosphere or above it — were, of course, made with artificial wings. Since the early writers did not realize that the air extended for only a few miles from the Earth, they assumed that if one could fly at all then it would only be a matter of a little extra effort to go to the moon. Lacian maded this idea is his accord story, "Icaro-Menippus". Menippus removed one wing from a vulture and one from an eagle, and despita the resultant asymmetric thrust succeeded in reaching not only the Moon but also the Sun.

To Cyramo de Bergerac, however, must go
the credit both for first applying the rocket to space travel, and, much more astenishing, for inventing the rum jet — a priority
which I do not think has hitherto been recognised. In his second attempted trip to
the Noon (the first attempt, using battles
of daw, had been unsuccessful and he had
come down in Casada) Cyramo took off from
the Earth in a "Flying Chariot" featomed
with fire-crackers. No detailed description
of the apparatum is available, but from what
we now know of exhaust velocities and muse
ratios the performance is most remarkable.

Cyrano's last attempt at interplanetary flight is, I think, the most interesting and the most accientific. The flying machine he evalved consisted of a large, light box, airtight except for a hole at either end, and built of convex burning glasses to focus the sualight into its interior. As a result, the heated air in the chamber would expand and escape through one nozzle, continually being replaced through the other. As Cyrano pot its

"I foresaw very well, that the vacuity that would happen in the iceashedron, by remon of the aunbeams united by the convex glasses, would to fill up the space attract a great abundance of air, whereby my box would be carried up: and that proportionably as I mounted, the running wind that should force it through the hole...must needs force it upon high."

Making allowance for the quaintness of the language, this is surprisingly like some kind of rum jet. However, Cyrano's spaculations were no more than brilliant flukes, for he had no real understanding of the forces My Arthur C. Clarke

he was trying to describe. Indeed, his idea that "Nature abhors a vacuum" made him imagine that it would be the air rushing isto the lower orifice that would propel him vehicle upwards? But he did at least realise that the thrust would fall off with the altitude.

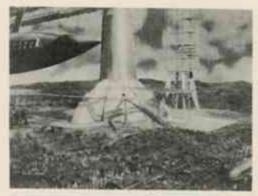
With the discovery of the forces of electricity and magnetism new possibilities were opened up to writers, but on the whole they seemed to take little advantage of them. Cyrano (he seems to have tried everything once) did make the prophet Elijah account to lleaven by taking a lodestone and a "very light machine of iron", sitting in the latter and throwing the lodestone into the air; the iron chariot was attracted to it, and the prophet repeated the operation until, presumeehly, St. Pater was able to give him a belping hand.

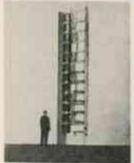
The most famous of all magnetically drives vehicles is, of course, Swift's flying island of laputs, 4½ miles in diameter, which was propelled by an enormous lodestone pointed to give any required direction of flight. Laputs, herover, lies outside our terms of reference as it was earth-bound and could not fly very far from the mainland beneath it.

Magnetism was also used in a such later story, "The Conquest of the Moon" (1894) by indre laurie. In this am iron mountain was turned into a wast electromagnet for the purpose of pulling down the Moon: I suppose this would countas a sort of interplanetery ways, though it was certainly a spectacular case of the mountain coming to Mahamet.

The devices mentioned in this section can be classed as "ongines" since they do represent deliberate attempts to cross space by mechanical means, however crazy the act-ual suggestions were in detail. Towards the end of the 18th century, writers became more call spaceships, possibly because the public was becoming sufficiently well schooled to see through the proposals they put forward -though looking at some of the things we read is the daily pross nowadays this hardly seems a sufficient explanation. Then, too, the invention of the balloon in 1783 had turned attention towards mavigation of the simeaphere rather than the remoter parts of the Universe. Whatever the reason, the 19th century was well under way before the interplanetary story got into its stride again, and atendily proliferated until it now secons that there are very few corners of the Common which are not pretty thoroughly explored. In the last century, also, the types of propulsion which are still in common fictional was began to establish thouselves and to be worked out in some detail. They fall into three main cleases - projectiles, antigravity and rockets - each of which we will illustrate by some typical examples.

From the Journal of the British Interplanetary Society, by courtesy of the Society.







above: the Things to Come Space-Gun.
below: Northrup's model electromagnetic
launcher: A contemporary readering of Cyrano's first attempt.

#### SPACE GUNS

The idea of the space-gun does not, as generally believed, originate with Jules Verme, although he provided us with the most famous (or notorious) specimen of its class. According to Professor Nicolson, the concept first appears in print as early as 1728 in a little-known book by one Wurtagh McDermot called, rather originally, "A Trip to the Moon". McDormot travelled to the Moon by rocket, after the atyle of Cyrano de Borgerac, but came back in true Verne style after inducing the Selenites to dig a great hole containing seven thousand barrels of gunpouder. He must have had a very glib and persuasive tongue to talk the inhabitants into daing all this work for him: but one notes also that he was Irish. Here is McDermot's description of the projects

"We already know, asid 1, the Reight of the Moon's Atmosphere, and know how Gunpewder will raise a Ball of any Weight to any Reight. Now I design to place myself in the Middle of ten wooden Vesselm, placed one within another, with the outermost atrongly hooped with Iron, to prevent its breaking. This I will place over 7,000 Barrels of Powder, which I know will raise me to the Top of the timesphere... But before I blow myself up, I'll provide myself with a large pair of times, which I will feates to my Arms in my Resting-place, by the help of which I will fly down to the Earth."

The last item provides a distinctly modern touch, with its bint of braking ellipses and supersonic glides back into the atmosphere.

Jules Verne's "From the Earth to the Moon" appeared in 1865, and its sequel "Round the Moon" in 1870. It is difficult to say just howseriously Yerne took the idea of his mammath cannon, because so much of the story is facetionaly written. But he went to a good deal of trouble to check his astronomical facts and figures, and had the ballistics of the projectile worked out by his brother-in-law, a professor of mathematics. Probably he believed that if such a gun could be built it might be capable of sending a projectile to the Moon, but it seems unlikely that he seriously imagined that any of the occupants would have survived the shock of takenff.

The "Columbiad", as it was christened, was a 900-foot vertical barrel sunk in the ground in Florida. It weighed 68,040 tons and was packed with 400,000 pounds of genection (then a new explosive), and the cylindrical abell was made of the recently discovered wonder metal, aluminium. It cost \$3,440,075, which is those days was quite a lot of money, though newsdays of course it wouldn't keep a nuclear physicist in heavy hydrogen.

ignoring the impossibility of its projection, Verne's projectile must be considered as the first really scientifically concaived apace vessel. It had bydraulic shock absorbers, air-conditioning plant, padded walls with windows deeply set in them, and similar errangements which we now accept as commountace in any well ordered spaceship. I need hardly may, however, that the gun itself would not have produced the results predicted by Yerne. Willy Ley disposes of it pretty thoroughly in his book "Rockets and Space Travel", Chapter 10. Not only would the initial acceleration of some 10,000 6 have converted the travellers into practically monomolecular films in a few microseconds, but the projectile itself would have been destroyed before leaving the barrel owing to the air in its path. It is of some interest that both Oberth and von Firquet have attempted to see if there are any conditions under which a space gus could operate, for example by building it on a very high nountain and evacuating the barrol to reduce air resistance. Even in these circumstances, however, the project seems impossible.

Verme's gun was not by any means the last of its kind, and scarcely less famous was that devised by R. G. Wells for the film Things to Come (1936). This caused much annoyance in the British Interplanetary Society at the time, it being generally felt that Wells had let us down pretty hadly. The explanation may be that Wells was not such interested in science as aclences be

SPACE TRAVEL IN FACT AND PICTION (contd.)

explicitly denied attempting technological prophecy, and was always more interested in the impace of acience on society. Certainly his space-gun was no more impracticable than his anti-gravity acresus, which we will discase later, yet they aroused no such ire, though the law of the conservation of energy was really quite well understood in 1900. But, of course, there was no H.I.S. in those days.

Two much more plausible attempts to use the space-gun - in conjunction with rocket propulsion - have appeared in this century. One is Professor Haldane's cassy, "The last Judgment" (in "Possible Worlds", 1927); but a more thorough treatment was made in Lhe interesting book "Zero to Eighty" (1937), written by the well known electrical engineer E. P. Northrup under the unlikely name "Akkad Pasudoman". This book, thinly disguised as fiction and apparently containing some real satobiographical material, was really a serions attempt to show that space travel could be achieved. Cortainly it must be the only interplanetary romance with a forty-page mathematical appendix and photographs of the models constructed to test the theories involved:

Northrup, being a practical accestist. realised that human beings could only survive being shot from a gum if the barrel was made immansely long and the acceleration correspondingly reduced, though sustained for a longer period. Se therefore used an electromagnetic gun (details of frequency, phase etc are discussed at some length) stretching for 200 kilometres along Mt. Pepccatapetl. Even this did not give the full velocity of escape, and the final impulse was provided by rockets.

We do not often come across space-gans in these more supplisticated days, for their fundamental disadvantages are too clearly recognized and quite unavoidable. Travelling at 5g acceleration, one must cover a distance of over a thousand kilometres before reaching excape velocity, and any practical launching device could only be a fraction of this length and produce a correspondingly amall fraction of the required velocity. track even a hundred KM long, for example, would only produce a tenth of EV. It does not necessarily follow, however, that spaceguns will never be used, for they may well come into their own for one special but very important application where they can be used under ideal conditions. I refer to the projection of fuel from a Moon base to spaceships orbiting either the Moon or Parth, where the required initial velocity is relatively small and there would be no restrictions set by air resistance or acceleration.

(to be continued)

#### A VERY SHORT editorial

The reader will notice that the tone of our reviews in this issue is almost uniformly one of asperity, and this is not an accident. The last year has not been a good one in actence fiction, although we enjoyed more economic stability than we have been used to - it was not a year of brilliant writing or exciting new developments. We saw the beginning of apace flight achieved in reality, but that triumph was no surprise. That was aclence fiction doing, besides reating on its laurela? Can we still seriously claim that we are in prophetic apeculation shead of the development of our culture's aspirations?

On a more practical plane, is science fiction making material progress -- are we galning more readers, winning academic recommittee, improving our standards professionally, dissociating the field from cults and in general producing more and better work?

We can look back and observe that we have made great progress since, say, 1938 or 1948, or even 1953 when SCIENCE FICTION NEWS began publication. Have we come far enough for completency? - G.S.

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#### OUT OF THIS WORLD AGENCY

Monsters . . . and Mundanes Mutants . . . Stories and Martians . . . Scripts Mysteries . . .

MONSTERS OF DISTINCTION and by PAUL ELASSILL where and by how been featured in "The Amazing Colonial Man," The breaten of the Saucer-Man," The She are not because in the Saucer-Man," The She are not should be world and in penal in The Fantanta Pugase People and "She Came" SOOG A O."

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PRYER JEFFERSON, 41 MARY STREET, LONGUEFILLE, B.S.V.

#### NEW BOOKS

"Science and Fiction" (Contd. from p. E) by Patrick Moore

Moore says he has " ... in every case consulted the original works under discussion," and we can only regret that he failed to apply the same technique once he reached the present Century.

The principal value the the rest of the book has is that it demonstrates how easy it is to write about something without more then a vague idea of what the subject is all about. It's really quite simple. Don't make any more definite statements of fact than you can avoid; concentrate on pronouncing judgments and discussing trends - spinion passen readily enough for knowledge, and a wild grees for the truth, as long as you tell the public that it already hazily believes. The trick is merely to guess right. And that's not difficult in this case. For some years now articles about science fiction have been featured fairly often in the public prints, and since most of these introduce no new matter but pass on what has been said before in a few original accounts the story has become fairly familiar. Every literate must have by mos read a dozen or more retellings of it, and will more or less unconsciously have a few preconceptions. Play on these, and sho cares if they are misconceptions?

We have the author's declaration (p.87) that he has read six issues of SF magazines of the year 1955, and it is not possible to pin him down as to just what else he has read in the field on for an magazines are concerned.

Now, this is a serious fault. There is a definite field of science fiction today in which a large number of writers are working and definite traditions and conventions are found, solely because of Gernsback's interest in the vague body of writing to which he gave a same. Gernaback's name does not seen to be mentioned anywhere here. Well, we know that the idea took hold and went shead into various developments. But the very considerable evelution of ideas took place only in the magazines, and that fact should always be made clear. The bonks, certainly many,

that have a place in the history of science fiction after the magazines came into being were uniformly unaffected by that evolution, notil very recent years. Sooks written in 1935 or 1940 have more in common with books of twenty years earlier than with the magnsince of their day. Only two books published before 1946 either used the established name of the field or acknowledged the magnificant existence, and even new the unganines are in every sense the backbone of science fiction. Even though genuine SF does appear first in hard covers, its writers are graduates of the megasines ... but there is no recognition of these facts here, and what little is said of the megazines is either wrong or incomplete. Harold Hersey's Thrill Book is called the ariginal magazine, but it was neither specifically devoted to science fiction nor a succensful beginning of anythings Herney was a pioneer, but his work was lost.

As we night expect with this kind of a background, the views put forward are rather confused. Moore seems to think juvenile SF is important, and discusses comics at length while he is about it. He tries to classify the field, and develops a theory about two general types of approach, best explained as realistic and fantastic; he has some fairly chvious and sensible things to say about istegrity and accuracy, but rather spoils the effect by bringing in his own pet theories.

His attempt to sort out the main pists and evaluate them is interesting, and despite having little information to go on he manages to make some critical points. One thing that is quite objectionable is his adoption of a characteristic bolier-than-thou censoring attitude.

Thatever information he did gain from -it appears -- questioning people who claimed to know the answers, there are too many gaps to excuse. If we need a popular explanation of solence fiction - and perhaps we do, if this is all a presumeably well informed writer with a scientific background knows about it - it remains to be written. "Science and Fiction" is only going to obscure the subject.

## BOOKS AT A GLANCE

in old thems, a dark cloud in interstellar space en- gulfing the solar system, written by an eminent satronomer.	Long and full of surprises, this is an unusual and un- conventional SF novel. The atyle could be more read- able, but this can be recon- mended as worth while.
Invasion by critturs which (as far as we could follow the explanation) eat people and replace them as duplic- ates.	Long on atmosphere and con- viction if short on logic, a good thriller. We under- stand not much different from the acreen version.
Novelisation of BRC radio serial. NB, this is not the story heard in lust-ralia under this title, but its predecessor on the first lunar expeditation.	Wot as outstanding in this medium as in mound, but atill good action and suspense.
Modern witch-hunt. Unident- ified black magician to be found and eliminatedbut mostly it's an ordinary enough apy or murder chase thriller.	There's some patter about mutations and superhumans, and some raviewers treat it as accessed fiction, as we're listing it. As a thriller, you may like it.
Juvenile. Saturn Exped- ition finds an advanced proteam intelligent race.	Incredible, otherwise fine.
Time-slip, flior goes 20 years shead to war-dameged Earope. Nothing else to speak of happens.	Maxwell is said to be a front for "a well-known writer". Perhaps his other work is better.
The Reds have this Plot, see, to knock off the good ol' USA while all its bold defenders are alseping off Christans hangovers.	Sabre-rettling rubbish. Dangerous rubbish, escauraging the attitudes it
Telepathy, invaders from Venus who operate with human membles aren't we getting themes like these rather too often?	Russell is at home in a plot almost traditionally his own. This run in Astounding as "Call Him Dead"
The only clue to the date seems to be a reference to two contemperary writeers being dead: net un- welcome news, but	What Brown and Cassell thought they were doing is a mystery.
	In interstellar space engulfing the selar system, written by an eminent entrement.  Invasion by critture which (as far as we could follow the explanation) ent people and replace them as duplicates.  Novelisation of ENC radio serial. No, this is not the story heard in lustralia under this title, but its predecessor on the first lanar expedition.  Nodern witch-hunt. Unidestrified black magician to be found and eliminated but mostly it's an ordinary enough apy or surder chase thriller.  Juvenile. Sature Expedition finds an advanced protean intelligent race.  Time-elip, flier goes 20 years shead to war-damaged Europe. Nothing size to speak of happens.  The Reds have this Plot, ase, to knock off the good ol' USA while all its bold defenders are alceping off Christens hangovers.  Telepathy, invaders from Venus who operate with human nombies aren't as getting themes like those rather too often?  The only clue to the date seems to be a reference to two contemporary writures being dead: not un-